THE

Mineralogical Magazine

AND

JOURNAL

OF THE

MINERALOGICAL SOCIETY

(INSTITUTED FEBRUARY 3, 1876)

EDITED BY L. J. SPENCER, M.A.

ASSISTED BY A COMMITTEE OF COUNCIL

VOLUME XIV

(Nos. 63-67, 1904-1907)

Reprinted 1965 for
Wm. DAWSON & SONS LTD., LONDON
with the permission of
THE MINERALOGICAL SOCIETY

ORIGINALLY PRINTED IN GREAT BRITAIN BY HORACE HART, THE UNIVERSITY PRESS, OXFORD. REPRINTED OFFSET LITHO BY BIDDLES LTD., THE CITY PRESS, GUILDFORD, SURREY

TABLE OF CONTENTS.

[No. 63. OCTOBER, 1904.]

	PAGE
Bye-Laws and List of Members	vii
Proceedings of the Mineralogical Society	xix
G. F. H. Smith: An improved form of Three-Circle Goniometer. (With plate I.)	1
R. H. Solly: On various minerals (Anatase, &c.) from the Binnenthal	16
H. Hilton: The Gnomonic Net. (With plate II.)	18
G. T. Prior: On Teallite, a new sulphostannite of lead from Bolivia; and its relations to Franckeite and Cylindrite	21
L. Fletcher: On various masses of meteoric iron reported to have been found in Great Namaqualand and the adjacent region	28
L. Fletcher: Historical note relative to the meteoritic fragments labelled 'Cape of Good Hope' and 'Great Fish River'	37
L. Fletcher: Note relative to the history of the mass of meteoric iron brought by Dr. F. P. Moreno from Caperr, Patagonia	41
L. J. Spencer: Irregularly developed crystals of Zircon (sp. gr. 4·0) from Ceylon	43
G. F. H. Smith: The construction and use of the Moriogram. (With plate III.)	49
M. Fletcher: Note on cobaltiferous Mispickel from Sulitjelma, Norway	54
Obituaries, Notes	56

[No. 64. MAY, 1905.]

Proceedings of the Mineralogical Society	xxv
H. Hartley: A new device for separating minerals by means of heavy liquids	69
R. H. Solly: Some new minerals from the Binnenthal, Switzerland	72
G. F. H. Smith: An improved form of Refractometer	83
J. W. Evans: On some new forms of Quartz-wedge and their uses	87
J. Currie: Note on some new localities for Gyrolite and Tobermorite	93
J. R. Lindsey: Note on the occurrence of Brookite in the Cleveland ironstone	96
H. Hilton: The construction of Crystallographic Projections	99
H. Hilton: Some applications of the Gnomonic Projection to Crystallography	104
J. H. Thomas: On an Epidote from Inverness-shire	109
Reviews, Notes	115

[No. 65. MAY, 1906.]

PAGE
Proceedings of the Mineralogical Society xxxi
H. A. MIERS and J. CHEVALIER: On the crystallization of sodium nitrate 123
J. CHEVALIER: On the crystallization of potash-alum 134
J. W. EVANS: The identity of the Amiantos or Karystian stone of the Ancients with Chrysotile 143
J. W. EVANS: Gnomonic Projections on two planes 149
J. W. EVANS: Determination of the optic axial angle of biaxial crystals in parallel polarized light 157
T. CROOK and B. M. JONES: Geikielite and the ferro-magnesium Titanates 160
G. T. PRIOR: Dundasite from North Wales 167
G. F. H. SMITH: Paratacamite, a new oxychloride of copper. With a chemical analysis by G. T. PRIOR 170
L. J. SPENCER: Phenacite and other minerals from German East Africa 178
R. H. SOLLY: Notes on some Binnenthal minerals (Ilmenite, Seligmannite, Marrite, &c.) 184
G. F. H. SMITH: On the method of minimum deviation for the determination of refractive indices. With a diagram (Plate IV) . 191
Notes 194

[No. 66. FEBRUARY, 1907.]

Proceedings of the Mineralogical Society xxxv
A. HUTCHINSON: The optical characters of Antimonite . . . 199
A. HUTCHINSON: The chemical composition of Lengenbachite . . 204
L. J. SPENCER: Note on 'Feather-ore': identity of 'Domingite' (='Warrenite') with Jamesonite 207
C. J. WOODWARD: Note on Gypsum crystals found lining a disused well at chemical works 211
C. O. TRECHMANN: Crystallography of Sartorite from Binn. (With Plate V.) 212
J. W. EVANS: Notes on skiodroms and isogyres 230
T. V. BARKER: On the regular growth of soluble salts on each other . 235
G. F. H. SMITH: Ilmenite from Jacupiranga, Brazil 258
H. HILTON: Note on the thirty-two classes of symmetry . . . 261
Obituaries (with portraits of S. L. Penfield, Plate VI, and R. P. Greg, Plate VII) 264
Review, Abstracts 275

[No. 67. SEPTEMBER, 1907.]

Proceedings of the Mineralogical Society xl
G. F. H. SMITH and G. T. PRIOR: Red silver minerals from the Binnenthal, Switzerland 28
L. J. SPENCER: Notes on some Bolivian minerals (Jamesonite, Andorite, Cassiterite, Tourmaline, &c.) 30
R. PEARCE: Cassiterite pseudomorphs from Bolivia 34

PAGE

A. Russell: On the occurrence of Linarite and Caledonite in County Wicklow 348

A. Russell: Note on the mines and minerals of the Silvermines district, Co. Tipperary 350

G. F. H. Smith: A new model of Refractometer 354

J. W. Evans: A simple arrangement and notation of the thirty-two classes of symmetry based on the symmetry of zone-axes . . 360

A. P. Young: On a Serpentine-rock from the mass of the Tarnthaler-Köpfe, Tirol 365

B. J. Harrington: Isomorphism as illustrated by certain varieties of Magnetite 373

G. S. Blake and G. F. H. Smith: Baddeleyite from Ceylon . . 378

F. H. Butler: On the occurrence of silver ore in the Perran mine, Perran Uthnoe, Cornwall 385

H. L. Bowman: On Hamlinite from the Binnenthal, Switzerland . 389

L. J. Spencer: A (fourth) list of new mineral names 394

Reviews, Notes 416

Index, Errata 420

DESCRIPTION OF PLATES.

		PAGE
Plate I.	Three-Circle Goniometer (G. F. H. Smith)	1
„ II.	The Gnomonic Net (H. Hilton)	18
„ III.	The Moriogram (G. F. H. Smith)	49
„ IV.	Refractive Index Diagram (G. F. H. Smith)	191
„ V.	Crystallography of Sartorite (C. O. Trechmann) . . .	229
„ VI.	Portrait of Samuel Lewis Penfield (1856–1906) . . .	264
„ VII.	Portrait of Robert Philips Greg (1826–1906) . . .	268